## IN THE CLAIMS:

1. (Currently Amended): A method in a data processing system, comprising: rendering a three-dimensional environment on a client computer associated with a first participant to form a rendered three-dimensional environment;

receiving shared data from a client computer associated with a second participant, wherein the shared data includes information to be shared between the second participant and the first participant and orientation information from a server that indicates where in the three-dimensional environment the second participant wishes to present the shared data; and

displaying a virtual representation of the shared data in the rendered threedimensional environment on the client computer associated with the first participant based on the orientation information.

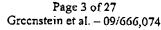
- 2. (Original): The method of claim 1, wherein the shared data includes two-dimensional data.
- 3. (Original): The method of claim 2, wherein the virtual representation is a surface texture image.
- 4. (Original): The method of claim 3, wherein the three-dimensional environment includes at least one three-dimensional object and the step of displaying a virtual representation comprises:

applying the surface texture image to the three-dimensional object.

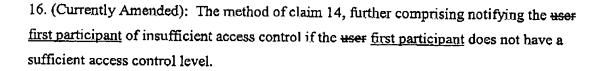
- 5. (Original): The method of claim 4, wherein the orientation information identifies the three-dimensional object.
- 6. (Original): The method of claim 2, wherein the two-dimensional data comprises one of a word processing document, a spreadsheet document, and a presentation document.

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- 7. (Original): The method of claim 2, wherein the two-dimensional data comprises a uniform resource locator.
- 8. (Original): The method of claim 1, further comprising executing an external application to decode the shared data to form the virtual representation of the shared data.
- 9. (Original): The method of claim 8, wherein the external application is a plug-in application.
- 10. (Original): The method of claim 8, wherein the shared data includes a wrapper application and the step of executing an external application comprises executing the wrapper application.
- 11. (Currently Amended): The method of claim 1, further comprising: performing a modification to the shared data; generating a shared data update event indicating the modification; and sending the shared data update event to the server at least one other participant.
- 12. (Currently Amended): The method of claim 1, wherein the shared data includes access control information indicating an access control level for a-user the first participant.
- 13. (Original): The method of claim 12, wherein the access control level is one of ownership, authorship, viewership, monitorship, and blind.
- 14. (Currently Amended): The method of claim 12, further comprising: receiving a request to modify the shared data; and determining whether the user first participant has a sufficient access control level.
- 15. (Currently Amended): The method of claim 14, further comprising modifying the shared data if the user first participant has a sufficient access control level.



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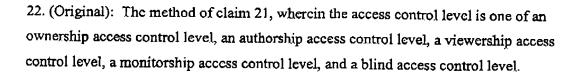
17. (Currently Amended): The method of claim 1, further comprising: receiving a shared data update event indicating a modification to the shared data; modifying the shared data according to the shared data update event to form modified data; and

displaying a modified representation of the modified data in the rendered threedimensional environment.

- 18. (Original): The method of claim 1, wherein the shared data is three-dimensional data.
- 19. (Original): The method of claim 18, wherein the virtual representation is a threedimensional object.
- 20. (Original): The method of claim 18, wherein the orientation information identifies a location and orientation for the virtual representation in the three-dimensional environment.
- 21. (Currently Amended): A method in a data processing system, comprising: rendering a three-dimensional environment on a client computer associated with a first participant to form a rendered three-dimensional environment;

receiving shared data from a client computer associated with a second participant, wherein the shared data includes information to be shared between the second participant and the first participant and access control information indicating an access control level for a user-from a server the first participant; and

displaying a virtual representation of the shared data in the rendered threedimensional environment on the client computer associated with the first participant based on the access control level of the user first participant.



- 23. (Currently Amended): The method of claim 21, further comprising: receiving a request to modify the shared data; and determining whether the user first participant has a sufficient access control level based on the access control information.
- 24. (Currently Amended): The method of claim 23, further comprising modifying the shared data if the user first participant has a sufficient access control level.
- 25. (Currently Amended): The method of claim 24, further comprising: generating a shared data update event indicating the modification; and sending the shared data update event to the server at least one other participant.
- 26. (Currently Amended): The method of claim 23, further comprising notifying the user first participant of insufficient access control if the user first participant does not have a sufficient access control level.
- 27. (Currently Amended): The method of claim 21, further comprising: receiving a shared data update event indicating a modification to the shared data; modifying the shared data according to the shared data update event to form modified data; and

displaying a modified representation of the modified data in the rendered threedimensional environment based on the access control level of the user first participant.

28. (Currently Amended): A method in a data processing system, comprising: presenting a graphical user interface on a client computer associated with a first participant;

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rendering a three-dimensional environment from the perspective of [[a]] the first participant in the graphical user interface to form a rendered three-dimensional environment, the three-dimensional environment including an avatar representing a second participant;

receiving a selection of the avatar from the first participant in the graphical user interface;

receiving a selection, in the graphical user interface, of a file to be transferred from the client computer associated with the first participant; and transferring the file to a client computer associated with the second participant.

29. (Original): The method of claim 28, further comprising: sending a transfer request to the second participant; receiving an acceptance from the second participant; wherein the step of transferring the file to a client computer is performed in response to receiving the acceptance.

30. (Currently Amended): An apparatus, comprising:

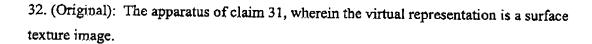
rendering means for rendering a three-dimensional environment on a client computer associated with a first participant to form a rendered three-dimensional environment;

receipt means for receiving shared data from a client computer associated with a second participant, wherein the shared data includes information to be shared between the second participant and the first participant and orientation information from a server that indicates where in the three-dimensional environment the second participant wishes to present the shared data; and

display means for displaying a virtual representation of the shared data in the rendered three-dimensional environment on the client computer associated with the first participant based on the orientation information.

31. (Original): The apparatus of claim 30, wherein the shared data includes twodimensional data.

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- 33. (Original): The apparatus of claim 32, wherein the three-dimensional environment includes at least one three-dimensional object and the display means comprises:

  means for applying the surface texture image to the three-dimensional object.
- 34. (Original): The apparatus of claim 33, wherein the orientation information identifies the three-dimensional object.
- 35. (Original): The apparatus of claim 30, further comprising execution means for executing an external application to decode the shared data to form the virtual representation of the shared data.
- 36. (Original): The apparatus of claim 35, wherein the external application is a plug-in application.
- 37. (Original): The apparatus of claim 36, wherein the shared data includes a wrapper application and the execution means comprises means for executing the wrapper application.
- 38. (Currently Amended): The apparatus of claim 30, further comprising: means for performing a modification to the shared data; means for generating a shared data update event indicating the modification; and means for sending the shared data update event to the server at least one other participant.
- 39. (Currently Amended): The apparatus of claim 30, further comprising:
  means for receiving a shared data update event indicating a modification to the shared data:

means for modifying the shared data according to the shared data update event to form modified data; and

means for displaying a modified representation of the modified data in the rendered three-dimensional environment.

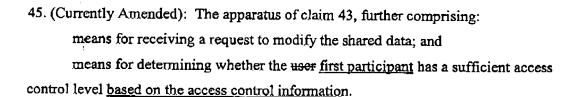
- 40. (Original): The apparatus of claim 30, wherein the shared data is three-dimensional data.
- 41. (Original): The apparatus of claim 40, wherein the virtual representation is a threedimensional object.
- 42. (Original): The apparatus of claim 40, wherein the orientation information identifies a location and orientation for the virtual representation in the three-dimensional environment.
- 43. (Currently Amended): An apparatus, comprising:

rendering means for rendering a three-dimensional environment on a client computer associated with a first participant to form a rendered three-dimensional environment;

receipt means for receiving shared data from a client computer associated with a second participant, wherein the shared data includes information to be shared between the second participant and the first participant and access control information indicating an access control level for a user from a server the first participant; and

display means for displaying a virtual representation of the shared data in the rendered three-dimensional environment on the client computer associated with the first participant based on the access control level of the user first participant.

44. (Original): The apparatus of claim 43, wherein the access control level is one of an ownership access control level, an authorship access control level, a viewership access control level, a monitorship access control level, and a blind access control level.



- 46. (Currently Amended): The apparatus of claim 45, further comprising means for modifying the shared data if the user first participant has a sufficient access control level.
- 47. (Currently Amended): The apparatus of claim 46, further comprising:

  means for generating a shared data update event indicating the modification; and
  means for sending the shared data update event to the server at least one other
  participant.
- 48. (Currently Amended): The apparatus of claim 45, further comprising means for notifying the user first participant of insufficient access control if the user first participant does not have a sufficient access control level.
- 49. (Currently Amended): The apparatus of claim 43, further comprising: means for receiving a shared data update event indicating a modification to the shared data;

means for modifying the shared data according to the shared data update event to form modified data; and

means for displaying a modified representation of the modified data in the rendered three-dimensional environment based on the access control level of the user first participant.

50. (Currently Amended): An apparatus, comprising:

presentation means for presenting a graphical user interface on a client computer associated with a first participant;

rendering means for rendering a three-dimensional environment from the perspective of [[a]] the first participant in the graphical user interface to form a rendered

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three-dimensional environment, the three-dimensional environment including an avatar representing a second participant;

first receipt means for receiving a selection of the avatar from the first participant in the graphical user interface;

second receipt means for receiving a selection, in the graphical user interface, of a file to be transferred from the client computer associated with the first participant; and transfer means for transferring the file to a client computer associated with the second participant.

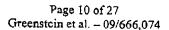
- 51. (Original): The apparatus of claim 50, further comprising: means for sending a transfer request to the second participant; means for receiving an acceptance from the second participant; wherein the transfer means transfers the file to the client computer in response to the means for receiving the acceptance.
- 52. (Currently Amended): A computer program product, in a computer readable medium, comprising:

instructions for rendering a three-dimensional environment on a client computer associated with a first participant to form a rendered three-dimensional environment;

instructions for receiving shared data from a client computer associated with a second participant, wherein the shared data including includes information to be shared between the second participant and the first participant and orientation information from a server that indicates where in the three-dimensional environment the second participant wishes to present the shared data; and

instructions for displaying a virtual representation of the shared data in the rendered three-dimensional environment on the client computer associated with the first participant based on the orientation information.

53. (Currently Amended): A computer program product, in a computer readable medium, comprising:



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instructions for rendering a three-dimensional environment on a client computer associated with a first participant to form a rendered three-dimensional environment;

instructions for receiving shared data from a client computer associated with a second participant, wherein the shared data including includes information to be shared between the second participant and the first participant and access control information indicating an access control level for a user-from a server the first participant; and

instructions for displaying a virtual representation of the shared data in the rendered three-dimensional environment on the client computer associated with the first participant based on the access control level of the user first participant.

54. (Currently Amended): A computer program product, in a computer readable medium, comprising:

instructions for presenting a graphical user interface on a client computer associated with a first participant;

instructions for rendering a three-dimensional environment from the perspective of [[a]] the first participant in the graphical user interface to form a rendered three-dimensional environment, the three-dimensional environment including an avatar representing a second participant;

instructions for receiving a selection of the avatar from the first participant in the graphical user interface;

instructions for receiving a selection, in the graphical user interface, of a file to be transferred from the client computer associated with the first participant; and

instructions for transferring the file to a client computer associated with the second participant.

